

Amendment to the Claims

The current status of all the claims of the application follows:

1. (Currently amended) A process for the manufacture of a catalyst for selective hydrogenation of a feed stock comprising
preparing a catalyst support from a carrier material selected from the group consisting of alumina, zinc oxide, nickel spinel, titania, magnesium oxide and cerium oxide,
impregnating the catalyst support with a palladium metal source and an additive to form a catalyst material, wherein the catalyst material comprises from about 0.001 to about 0.028 weight percent palladium, from about 0.04 to about 0.15 weight percent of silver, wherein the ratio of the silver to the palladium is from about 1:1 to about 20:1, and wherein the weight percentages are based on the total weight of the prereduced catalyst,
reducing the ~~palladium-impregnated~~ catalyst with a reducing material,
without permitting the reduced catalyst to reoxidize, placing the reduced catalyst in a container under a non-oxidizing material, and
distributing the prereduced catalyst in the container to a customer while maintaining the reduced catalyst under the non-oxidizing material.

2. (Original) The process of Claim 1 wherein the temperature

of reduction of the catalyst is from about 50°F to about 1000°F (10°C to 538°C).

3. (Original) The process of Claim 1 wherein the non-oxidizing material is selected from the group consisting of carbon dioxide, nitrogen, helium, neon and argon.

4. (Original) The process of Claim 1 wherein the non-oxidizing material is nitrogen.

5. (Original) The process of Claim 1 wherein the non-oxidizing material is carbon dioxide.

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Original) The process of Claim 1 wherein the selective hydrogenation process comprises a front-end hydrogenation process.

12. (Canceled)

13. (Original) The process of Claim 1 wherein the feed stock comprises a C₂ and C₃ olefinic feed stock.

14. (Original) A catalyst prepared by the process of Claim 1.

15. (Canceled)

16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Canceled)

21. (Canceled)

22. (New) The process of Claim 1 wherein the catalyst material comprises from about 0.01 to 0.02 weight percent palladium based on the total weight of the prereduced catalyst.

23. (New) The process of Claim 1 wherein the ratio of the silver to the palladium in the catalyst is from about 2:1 to about 20:1 based on the total weight of the prereduced catalyst.

24. (New) The process of Claim 1 wherein the ratio of the silver to the palladium in the catalyst is from about 2:1 to about 6:1 based on the total weight of the prereduced catalyst.

25. (New) The process of Claim 1 wherein the ratio of the silver to the palladium in the catalyst is from about 12:1 to about 20:1 based on the total weight of the prereduced catalyst.

26. (New) The process of Claim 1 wherein the surface area of the catalyst support is from about 1 to about 75 m²/g.

27. (New) The process of Claim 1 wherein the silver comprises from about 0.04 to 0.12 weight percent of the catalyst.

Basis for Amendment to the Claims.

The applicants has amended Claim 1 to clarify that the composition of the catalysts of the invention, prior to reduction, includes a specific quantity of palladium, a specific quantity of silver and a specific ratio of the silver to the palladium. Basis for this Amendment is contained on page 15, lines 16 - 23 of the application.

New Claim 22 is based on claim language from Claim 10, which is being canceled. Claims 23, 24, and 25 are based on disclosures on page 15, line 23 through page 16, line 1 of the application. Claim 26 is based on a disclosure on page 14, lines 1 - 3 of the application. Claim 27 is based on a disclosure on page 15, lines 16 - 23 of the application. No new subject matter is introduced by any of these amendments or new claims.